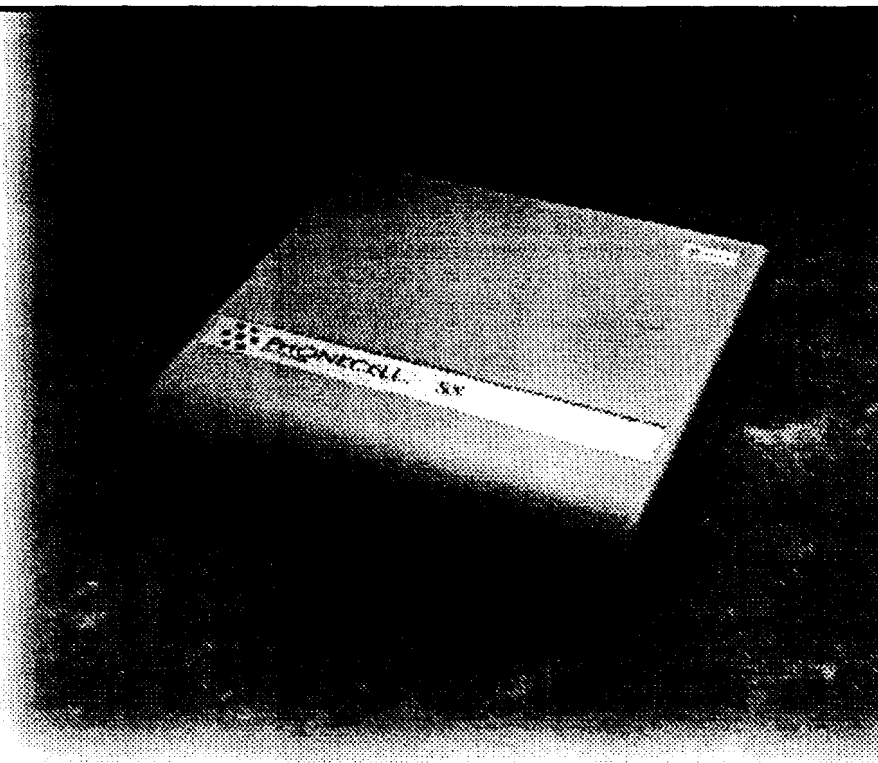


ATTACHMENT C

Phonecell SX2o

For GSM 900



8-watts of power and fax/data options in a single package. The single-line, fixed-wireless, Phonecell SX for GSM terminal provides immediate access to home, office or any remote location where phone service is needed and cellular networks are available. All of your communication requirements, such as voice, fax and data, can take advantage of growing worldwide cellular technology. The Phonecell SX for GSM is the ideal communication solution whenever landlines are unavailable, impractical or too expensive.

Benefits

- 8-watts of power for better signal strength
- Voice, FAX, Data and Modem Capabilities
- Pay Phone Application Options with Line Reversal and Tariff Pulse Settings
- Excellent Voice Quality in a Wireless System
- Immediate Primary Telephone Access
- Instant Availability of Extra Lines for Extended Communications Capabilities
- Rapid Emergency Service for Damaged Wirelines
- Dialing Flexibility with Both DTMF and Pulse Dialing
- Communications Reliability with AC/DC Power and Battery Back-Up

Phonecell SX2o

for GSM 900



Telular Corporation Corporate Headquarters
647 North Lakeview Parkway
Vernon Hills, Illinois 60061 USA
Phone: 847-247-9400 • Fax: 847-247-0021
E-mail: sales@telular.com • http://www.telular.com

Features

8 Watts of Power Battery Back-Up

- Provides uninterrupted talk time and standby operations should there be an AC power failure.

Optional Fax and Data

- 9600 baud fax
- 2400 baud data

Several Models Available

- Phonecell SX for GSM Voice
- Phonecell SX for GSM Voice, FAX and Data
- With and without payphone features

Digital Voice Privacy

- Protects and maintains the privacy of personal and business conversations.

Easy-to-Use, Multi-Feature Terminal

- Many special features are available and easily programmable from a computer and/or standard telephone. Features include Auto-Send Delay, Line Reversal and Call-Answered Supervision Tone.

Multiple Antenna Options

- Indoor or Outdoor Antennas to accommodate required signal strengths.

Pay Phone Application Options

- Includes Line Reversal and Tariff Pulse Settings.

Smart Switch

- Terminal automatically routes a voice or data call via two RJ-11 connections.

Technical Specifications

Transceiver:

- GSM (Global System for Mobile Communications)

Frequency Ranges:

- Transmit 890 - 915 MHz
- Receive 935 - 960 MHz

Dimensions:

- Metric (cm) 5.6 x 32.5 x 28.9
- U.S. (inches) 2.2 x 12.8 x 11.4

Weight:

- 4.5 kg. (10 lb.)

Environment:

- Operating Temperature Range: -10°C to +55°C
- Storage Temperature Range: -25°C to +65°C
- Humidity: 5% to 95% (excludes batteries)

AC Input Range:

- Voltage: 90 to 270 Vrms.
- Frequency: 47 to 65 Hz.

Back-Up Battery:

- Two 6-volt 4AH Batteries (Up to 1 hour of talk time; or up to 8 hours of standby.)

Power Dissipation:

- AC Power Input: 33 W
 - DC Power Input: 25 W
- (Maximum input power of the terminal with battery discharged and full RF power.)

Intelligent RJ-11 Interface:

- Ringer Equivalence Number (REN) 5.0A
- Dynamic Echo Cancellation
- Loop - Start Compatible
- -48 VDC (On-Hook)
- 35mA (Short Circuit)
- 2000 Ohms Maximum Loop Resistance
- DTMF and Pulse Dialing

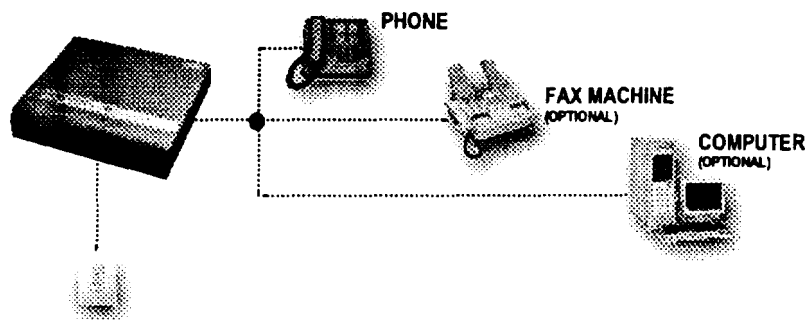
Enclosure:

- Metal Base with PVC Plastic Cover

Connectors:

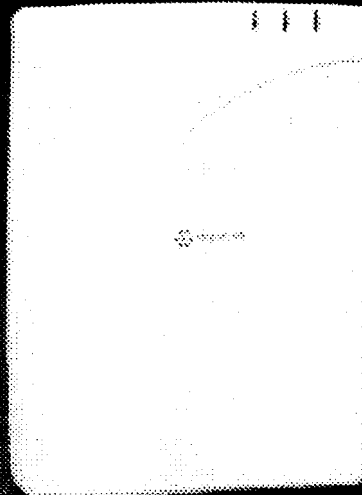
- Interface RI-11C Jack (voice)
- Interface RI-11C Jack (fax/data)
- TNC Antenna Connector
- DC Power Input Jack
- IEC 320/C14 AC Connector

Easy Installation



Phonecell SX2e

for TDMA



**STANDARD
FAX/DATA**

The Phonecell SX2e for TDMA is a single-line Fixed Wireless Terminal (FWT) that provides immediate access to home, office or any remote location where phone service is needed and TDMA wireless networks are available. All of your communication requirements can take advantage of this growing worldwide cellular technology. Primary telephone service, extra lines, least cost routing, wireless payphones and security back-up can be available immediately. Simply plug your standard telephone, fax and/or computer modem into the Phonecell's modular jack. The Phonecell SX2e for TDMA is the ideal communication solution whenever landlines are unavailable, unreliable or uneconomical.

Benefits

- Immediate primary telephone access and availability of extra lines
- Exceptional voice quality
- Easy to use for bypassing high-cost wired service in least-cost-routing applications
- Digital voice privacy
- Flexible power supply and battery backup options to maximize performance

Phonecell SX2e for TDMA



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Model

Voice/Fax/Data

- TDMA 800 MHz (P/N: 1C02A090-F)

Features

- Exceptional voice quality with echo cancellation and digital voice privacy
- DTMF and pulse-dial capability
- Supports multiple extension phones (*up to three mechanical phones, or five electronic phones*)
- Standard fax and data by switching to analog channel (subject to network availability)
- 3-wire linear power supply (included) and inline battery backup unit (optional)
- Compatible with popular supplementary services, including call waiting, call forwarding, caller ID and more (*all subject to network availability*)
- Built-in signal-strength indication and self-monitoring capabilities for user diagnostics
- Easily programmed using ordinary telephone
- Simple desktop or wall-mount installation

Specifications

Air Interface Standard

- TDMA IS-136

Transmit Power

- 600 mW

Frequency Ranges

- Transmit 824-849 MHz
- Receive 869-894 MHz

FWT Dimensions and Weight

- Metric (mm) 210 x 152 x 57
- U.S. (inches) 8.25 x 6.0 x 2.25
- 0.55 kg. (1.2 lb.)

Operating Voltage

- 12 VDC

Environment

- Operating temperature range: -10°C to 55°C
- Storage temperature range: -25°C to +65°C
- Humidity: 5% to 95%

Power Dissipation

- AC power input: 10 W
(Maximum input power of the terminal at full RF power)

Intelligent RJ-11 Interface

- Ringer Equivalence Number (REN) 5.0A

LED Indicators

- Power status
- Cellular status
- FWT status

Connectors

- DC power input jack
- Interface RJ-11 jack (*voice, fax, data*)
- TNC antenna connector

3-Wire Linear Power Supply (Included)

- Voltage: 120/240 VAC
- Frequency: 50/60 Hz
- Cord options: U.S., U.K., Europe, Australia

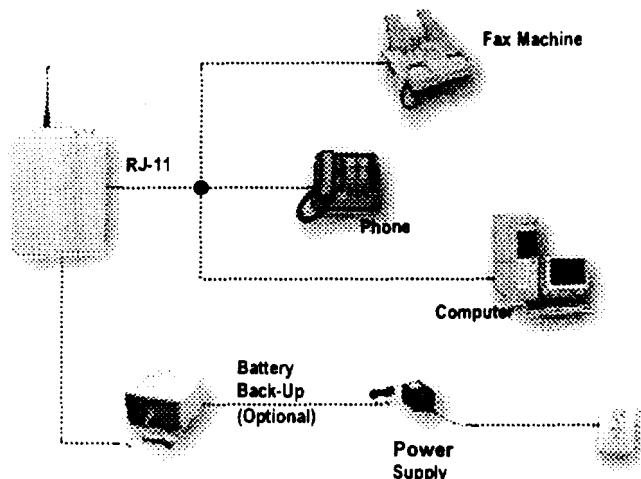
Inline Battery Back-Up (Optional)

- Two 6-volt, 4 AH lead-acid batteries are required with the optional inline battery backup power supply. Provides up to 1 hour of talk time or up to 8 hours of standby.

Antenna

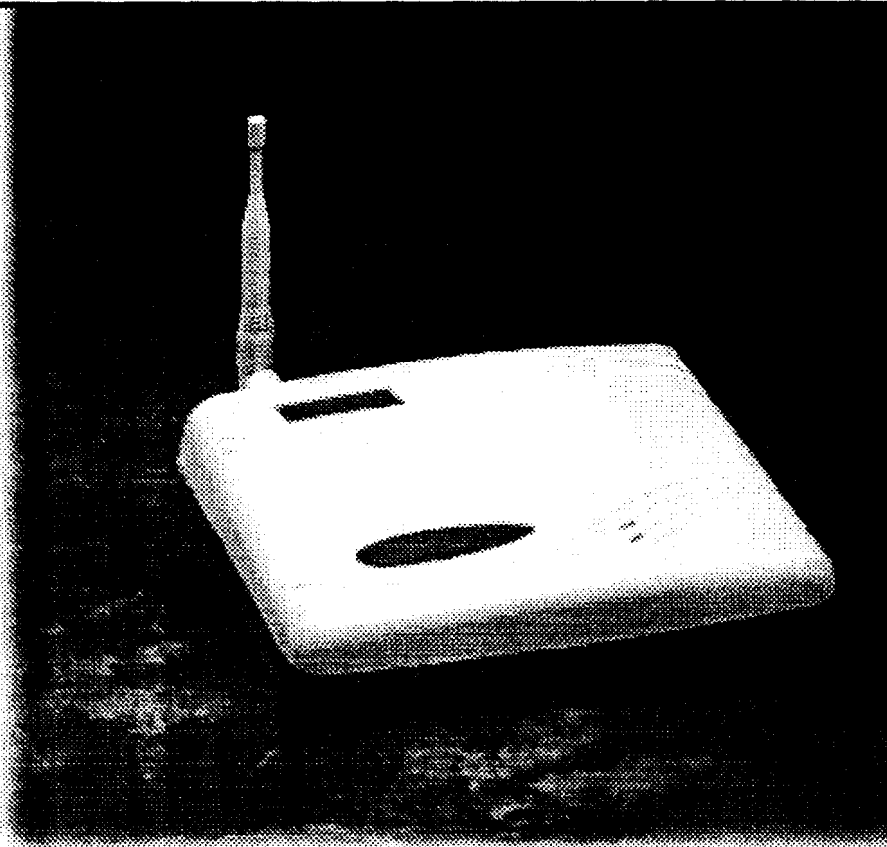
- Includes a 3 dB gain spike antenna
- Optional higher gain antennas available:
 - 3 dB and 5 dB gain magnetic-mount
 - 9 dB and 12 dB gain Yagi

Easy Installation



Phonecell SX2i

for CDMA 800 & CDMA 1900



**STANDARD
FAX
and
COMPUTER
FAX/DATA**

Plug into total communications flexibility with Telular's Phonecell SX2i for CDMA. Whether you need primary telephone service, security backup or remote data access, this versatile, single-line Fixed Wireless Terminal (FWT) puts immediate voice, fax and computer data capability at your fingertips. Simply plug your standard telephone, fax and/or computer into the Phonecell's modular jacks. And take advantage of the exceptional call clarity and privacy offered by rapidly expanding CDMA 800 MHz and CDMA 1.9 GHz networks. The Phonecell SX2i for CDMA is the ideal communication solution for today's wireless communications needs.

Benefits

- Immediate primary telephone access and availability of extra lines
- Exceptional voice quality
- Easy to use for bypassing high-cost wired service in least-cost-routing applications
- Digital voice and data privacy
- Built-in battery backup for self-contained limited operation during AC power outages
- Sleek, rugged, compact design

Phonecell SX2i

for CDMA 800 & CDMA 1900



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Models

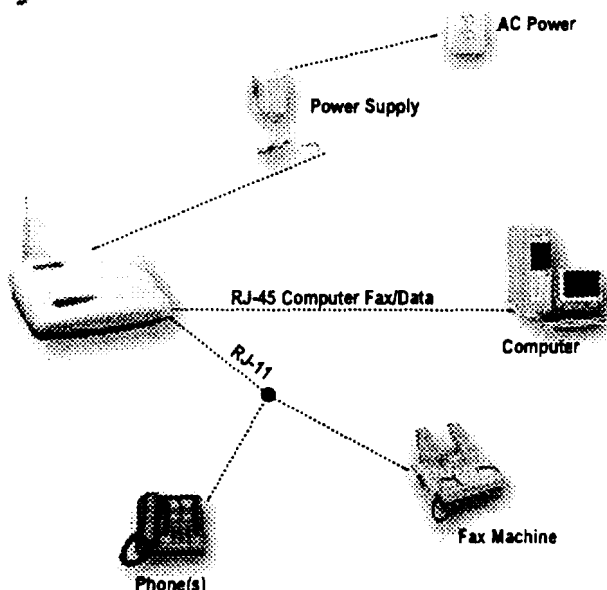
Two Versions for CDMA

- CDMA 800 MHz (P/N: 1C02A128)
- CDMA 1.9 GHz (P/N: 1C02A129)

Features

- Exceptional voice quality with echo cancellation and digital voice/data privacy
- DTMF and pulse-dial capability
- Supports multiple extension phones (*up to three mechanical phones, or five electronic phones*)
- Digital computer fax/data and standard fax (*subject to network availability*)
- AC-to-DC wall cube power supply (*included*) and built-in battery backup with battery (*included*)
- Compatible with popular supplementary services, including call waiting, call forwarding, caller ID and more (*all subject to network availability*)
- Built-in signal-strength indication and self-test capabilities for user diagnostics
- Simple desktop or wall-mount installation

Easy Installation



Specifications

Air Interface Standards

- CDMA 800 MHz: IS-95A
- CDMA 1.9 GHz: J-STD-008

Transmit Power

- 200 mW

Frequency Ranges

	Transmit	Receive
• CDMA 800	824-849 MHz	869-894 MHz
• CDMA 1.9	1850-1910 MHz	1930-1990 MHz

FWT Dimensions and Weight

- Metric (mm) 165 L x 215 W x 61 H
- U.S. (inches) 6.5 L x 8.46 W x 2.4 H
- Weight (without battery): .76 kg (1.7 lbs.)

Operating Voltage

- 12 VDC

Operating Temperature

- 0° to +50°C (+32° to +122°F)

LED Indicators

- Service/signal strength
- Power

Connectors & Switches

- RJ-11 jack for phone and standard fax
- RJ-45 jack for computer fax/data
- TNC antenna connector
- 12 VDC wall-cube power input socket
- 12 VDC auxiliary power input socket
- Internal battery On/Off toggle switch

AC-to-DC Wall Cube Power Supply (Included)

- Voltage: 120/240 VAC
- Frequency: 50/60 Hz
- Cord options: U.S., U.K., Euro, Australia, China

Battery (Included)

- 12 VDC, 2 AH sealed lead-acid battery
- Trickle charges while FWT on AC power
- 8-hour standby operation (*typical*)
- 1-hour voice/talk time operation (*typical*)
- Battery removal has no effect on the FWT while it is operating from AC power source

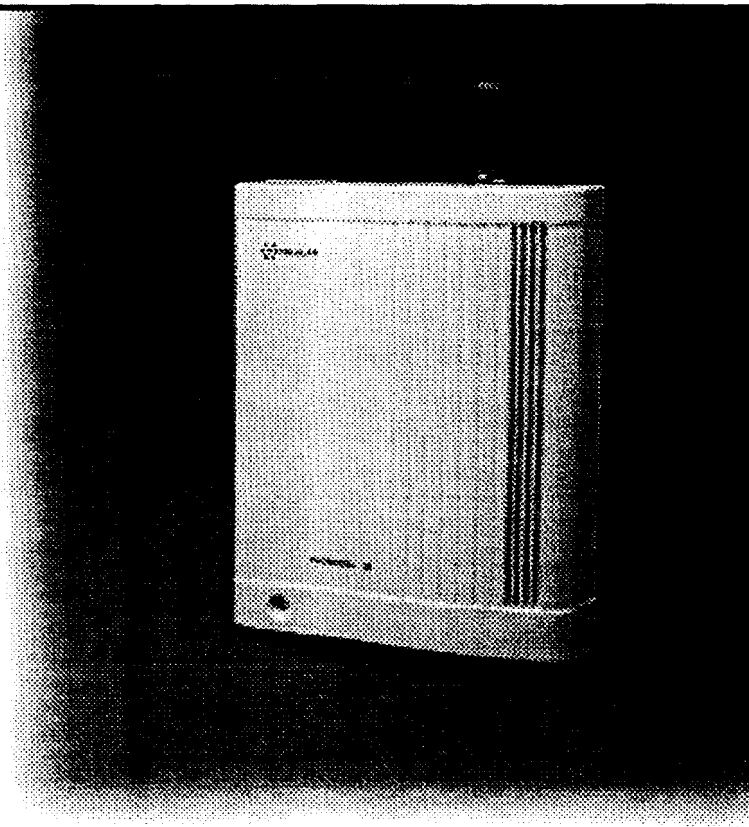
Antenna

- 3 dB gain spike antenna (*included*)
- Optional higher gain antennas available:
 - 5 dB gain magnetic mount antenna
 - 9 dB and 12 dB gain Yagi antennas

Optional Accessories

- Field programming kit (*needed to program the FWT*) includes 3.5" disk and programming cable
- Data cable – for computer data transmission: RJ-45 on FWT to DB-9 on computer

Phonecell® SX3e for AMPS



Need to be connected? Get in touch with the Phonecell SX for AMPS! Everything you need in a stylish enclosure. The Phonecell SX for AMPS, Fixed Wireless Terminal (FWT) provides proven, reliable access to home, office or any location where phone service is needed and cellular networks are available. All of your communications requirements, such as voice, fax, and data can be easily supported. The Phonecell SX for AMPS is the ideal communication solution whenever landlines are unavailable, impractical, or too expensive. Maximize your wireless performance with many flexible power supply options.

Need to be connected?

Get in touch with the Phonecell SX for AMPS.

Benefits

- Full 3 Watts of Power for Reliable, Full Signal Strength
- Sleek, Stylish Modular Design
- Excellent Voice Quality in a Wireless System
- Immediate Primary or Secondary Telephone Access
- Complete Voice, Fax, and Data Capabilities Built-In
- Instant Availability of Extra Lines for Extended Communications Capabilities
- Cost Effective, Flexible Power Supply Options
- Least Cost Routing When Used in Tandem with PABX
- Reliable, Field-Proven Design

Phonecell® SX3e for AMPS



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E-mail: sales@telular.com • http://www.telular.com

Features

Power

- Maximum allowable power - 3 watts for reliable Full Signal Strength.

Power Supply Options

- Multiple power supply options offer worldwide flexibility.
- Power supply only.
- Power supply with charger and battery compartment.
- Battery back-up provides uninterrupted talk time plus the security of extended standby operation during power failures.
- Battery operation allows use directly from charged stand-by batteries.

Automatic Audio Level Setting

- Automatically adjusts fax and modem level settings to assure accurate fax and data transmission.

Incoming Call Announcement

- Signals incoming calls while dialing out. A simple hookflash then connects the incoming call.

Technical Specifications

Transceiver

- AMPS

Frequency Ranges

- Transmit 824 - 849 MHz
- Receive 869 - 894 MHz

Dimensions

- Metric (cm) 24.6 x 18.3 x 4.3
- U.S. (inches) 9.7 x 7.2 x 1.7

Weight

- Metric: 1.2 Kilograms
- US: 2.7 Pounds
(excludes power supply and batteries)

Environmental Ranges

- Operating Temperature: -10°C to +55°C
- Storage Temperature: -25°C to +65°C
- Humidity: 5% to 95% (non-condensing)

DC Input Voltage Range

- 10.5 to 15.0 VDC
- Automatic low voltage monitor

Power Dissipation

- 25 Watts, Maximum
- 6 Watts, Typical Standby

Intelligent RJ-11C Interface

- Loop-Start Compatible
- Ringer Equivalence Number (REN) 5.0A
- -48 VDC, (On-Hook)
- 35 to 45 mA, Short Circuit
- 200 Ohms Maximum Loop Resistance
- FCC Part 68 Surge Protection
- DTMF (Tone) and Pulse Dialing
- Precision Dial Tone

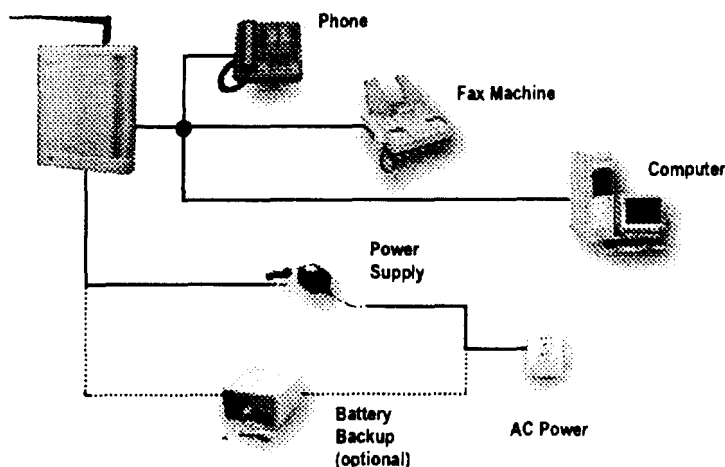
Enclosure

- Precision Die Cast Aluminum
- Intrusion-proof Housing

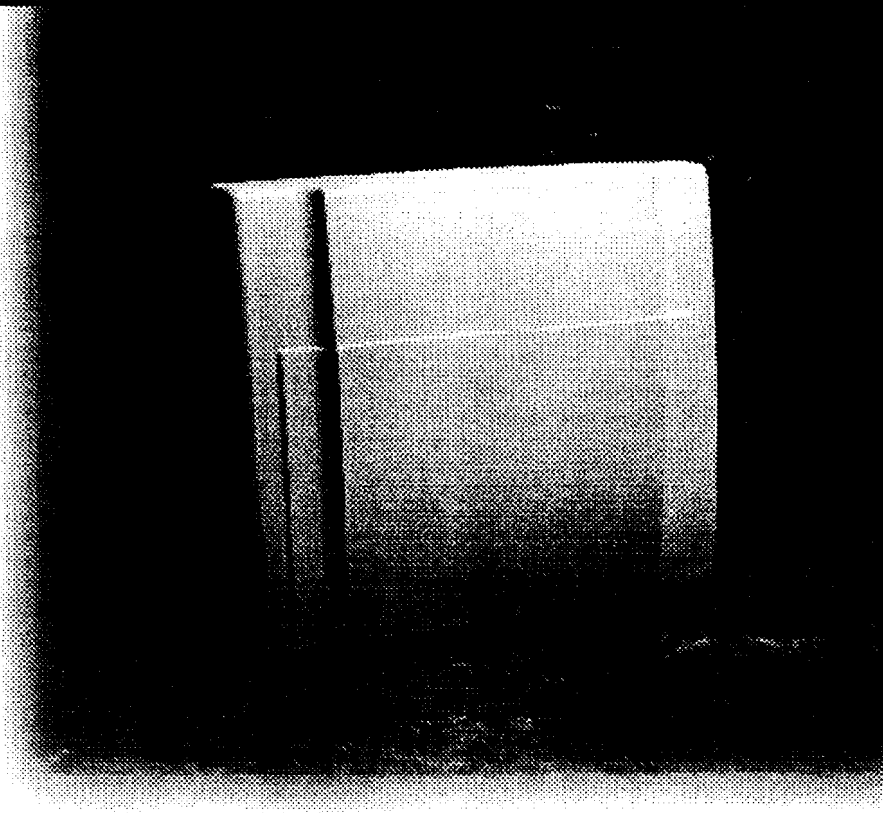
Connectors

- Interface RJ-11C Jack
- Programming Keyed RJ-11
- TNC Antenna Connector
- DC Power Input Jack

Easy Installation



Phonecell[®] SX3i for AMPS



Everything you need in a sleek package. The Phonecell SX for AMPS Fixed Wireless Terminal provides access to home, office or any remote location where phone service is needed and cellular networks are available. All of your communication requirements, such as voice, fax and data, can be easily supported. The Phonecell SX for AMPS is the ideal

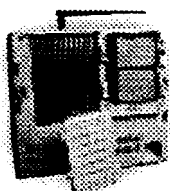
Benefits

- 3 watts of power
- Immediate Primary Telephone Access
- Instant Availability of Extra Lines for Extended Communications Capabilities
- Sleek, Small Modular Design
- Excellent Voice Quality in a Wireless System

Phonecell® SX3i for AMPS



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External Battery
Access

Features

Power Supply Options

- Universal AC Power Supply provides independent switching.
- Back-Up Battery Internal Charger provides uninterrupted talk time and standby operations should there be an AC power failure.
- Battery Only allows start-up directly from the stand-by battery.

External Battery Access

- Add or change batteries through slide-off cover on bottom of terminal.

Power Switch

- Convenient external power switch.

Incoming Call Announcement

- Signals incoming calls while dialing a number out. Simple hookflash connects the incoming call.

User-Adjustable Volume Tone

- Allows adjustable volume levels on both transmit and receive through POTS phone.

No-Service Tone

- Produces a special high-pitched tone to indicate "No Service."

Automatic Audio Level Setting

- Adjusts audio level settings automatically on fax or modem calls.

Roam Dial Tone

- Produces a special dial tone when transceiver is in the Roam mode; can be turned on and off.

Technical Specifications

Transceiver

- AMPS

Frequency Ranges

- Transmit 824 - 849 MHz
- Receive 869 - 894 MHz

Dimensions

- Metric (cm) 7 x 33 x 30
- U.S. (inches) 2.76 x 12.9 x 11.8

Weight

- 2.1 kg. (4.6 lb.) (excludes batteries)

Environment

- Operating Temperature Range: -10°C to -55°C
- Storage Temperature Range: -25°C to -65°C
- Humidity: 5% to 95% (excludes batteries)

AC Input Range

- Voltage: 90 to 260 VAC
- Frequency: 47 to 440 Hz.
- Power: 14.4 WDC

Back-Up Battery

- Optional in External Power Supply Accessory
- Uses Two 6-volt 4AH Batteries (Up to 1 hour of talk time; or up to 8 hours of standby.)
- In-line support, Uninterrupted Power, Automatic Trickle Charge, Automatic Low Voltage Disconnect to Avoid Battery Damage

Power Dissipation

- AC Power Input: 35 W
- DC Power Input: 25 W (Maximum input power of the terminal with battery discharged and full RF power.)

Intelligent RJ-11C Interface

- Loop-Start Compatible
- Ringer Equivalence Number (REN) 5.0A
- -48 VDC (On-Hook)
- 35 mA (Short Circuit)
- 2000 Ohms Maximum Loop Resistance
- Surge Protection to FCC Part 68 Specifications
- DTMF and Pulse Dialing
- Precision Dial Tone

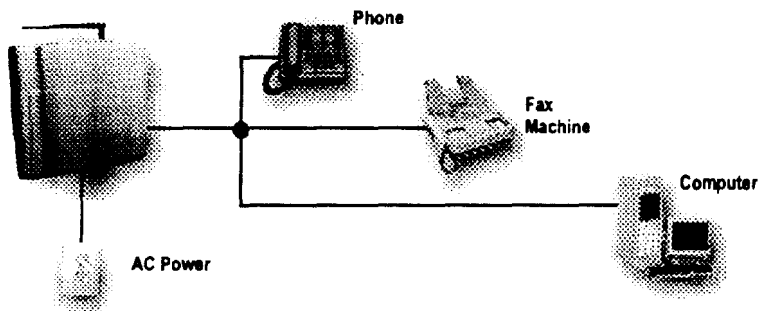
Enclosure

- Flame Retardant ABS Plastic Cover and Base

Connectors

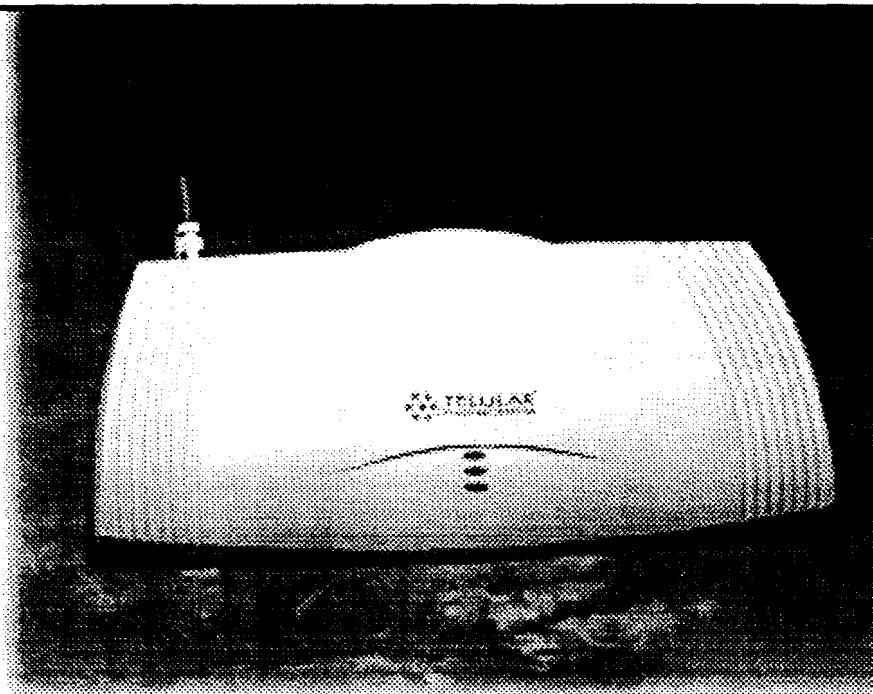
- Interface RJ-11C Jack
- TNC Antenna Connector
- DC Power Input Jack
- External Programming Jack
- iEC 320/C8 AC Connector

Easy Installation



Phonecell SX4e

for GSM 900



**COMPUTER
FAX/DATA**

Maximize wireless performance with the latest single-line GSM Fixed Wireless Terminal (FWT) from Telular. Take advantage of the established worldwide availability of GSM 900 cellular networks for all of your communications requirements, including voice and computer fax/data. The Phonecell SX4e for GSM 900 provides access to home, office or any remote location where phone service is needed and GSM wireless networks are available. Primary telephone service, extra lines and security back-up can be available immediately. Simply plug your standard telephone or computer into the Phonecell's modular jacks. The Phonecell SX4e for GSM 900 is the ideal solution for today's wireless communications needs.

Benefits

- Immediate primary telephone access and availability of extra lines
- Exceptional voice quality
- Easy to use for bypassing high cost wired service in least-cost-routing applications
- Digital voice and data privacy
- Flexible power supply and battery backup options to maximize performance

Phonecell SX4e

for GSM 900



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Model

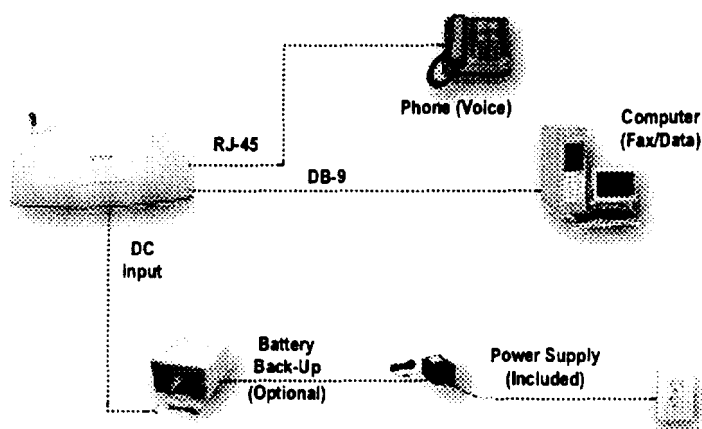
Voice/Data

- GSM 900 MHz (P/N: 1C02A113)

Features

- Exceptional voice quality with echo cancellation and digital voice/data privacy
- DTMF and pulse-dial capability
- Supports up to five extension phones
- Digital computer fax and data (*subject to network availability*)
- External linear power supply (*included*) and optional battery backup
- Compatible with popular supplementary services, including call waiting, call forwarding, caller ID and more (*all subject to network availability*)
- Built-in signal-strength indication and self-monitoring capabilities for user diagnostics
- Easily programmed using ordinary telephone
- Simple desktop or wall-mount installation

Easy Installation



Specifications

Air Interface Standard

- GSM 900 Phase I

Transmit Power

- 2 watts

Frequency Ranges

- Transmit: 890-915 MHz
- Receive: 935-960 MHz

FWT Dimensions and Weight

- Metric (cm) 30 x 14.3 x 4
- U.S. (inches) 12 x 5.6 x 1.5
- 1.2 kg. (2.5 lb.)

Operating Voltage

- 12 VDC

Environment

- Operating temperature range: -10°C to +50°C
- Storage temperature range: -25°C to +65°C
- Humidity: 5% to 95%

Power Dissipation

- AC power input: 10 W
(Maximum input power of the terminal at full RF power)

Intelligent RJ-11 Interface

- Ringer equivalence number (REN) 5.0A
- Dynamic echo cancellation
- POTS Programming

LED Indicators

- Power status
- Cellular status
- FWT status

Enclosure

- ABS plastic cover and cast aluminum base

Connectors

- RJ-45 interface jack for voice (*Accepts RJ-11 phone line connector*)
- DB-9 port for digital computer fax/data
- TNC antenna connector
- DC power input jack

Antenna

- Stub antenna (*included*)
- Optional higher gain antennas available:
 - 3 dB or 5 dB gain magnetic-mount
 - 9 dB and 12 dB gain yagi

Power Supply (Included)

- 3-wire linear

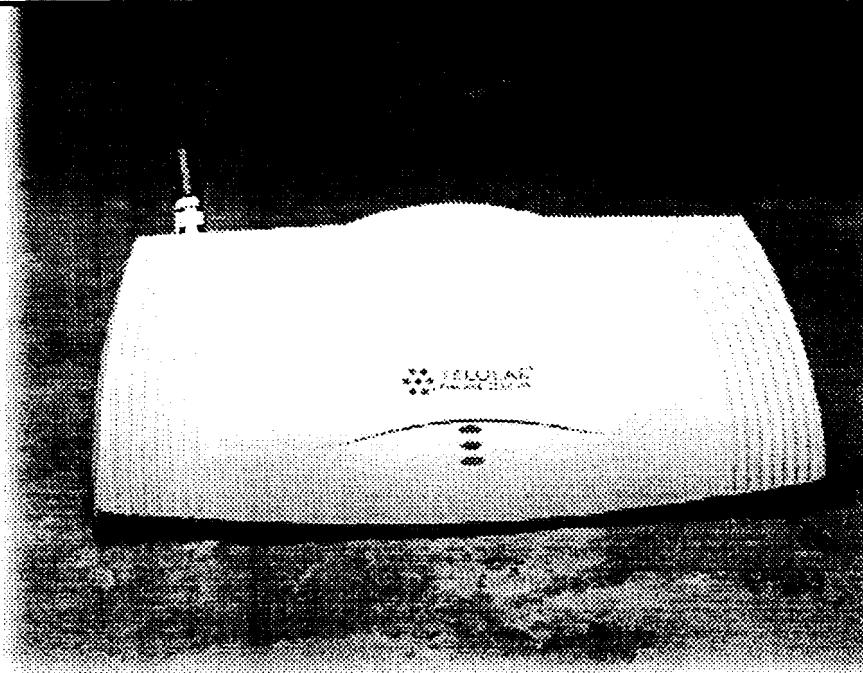
	110V	220V
• Voltage	90 to 135 Vrms	190 to 300 Vrms
• Frequency	57 to 63 Hz	47 to 53 Hz
• Plug options:	U.S., U.K., Euro., Australia	

Option Accessories

- Inline battery backup unit/charger (*provides up to 9 hours of talk-time or 16 hours of standby*)
- Lead-acid batteries for battery backup unit (*two 6-volt 4AH lead-acid batteries required*)

Phonecell SX4e

for TDMA 800



**DIGITAL VOICE
FAX/DATA (AMPS)**

Maximize wireless performance with the latest single-line TDMA Fixed Wireless Terminal (FWT) from Telular. Take advantage of the established worldwide availability of TDMA 800 cellular networks for all of your communications requirements, including digital voice and analog fax/data (AMPS). The Phonecell SX4e for TDMA provides access to home, office or any remote location where phone service is needed and TDMA wireless networks are available. Primary telephone service, extra lines and security back-up can be available immediately. Simply plug your standard telephone, fax machine or computer into the Phonecell's modular jack. The Phonecell SX4e for TDMA is the ideal solution for today's wireless communications needs.

Benefits

- Immediate primary telephone access and availability of extra lines
- Exceptional voice quality
- Easy to use for bypassing high cost wired service in least-cost-routing applications
- Digital voice and data privacy
- Flexible power supply and battery backup options to maximize performance

Phonecell SX4e

for TDMA 800



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Model

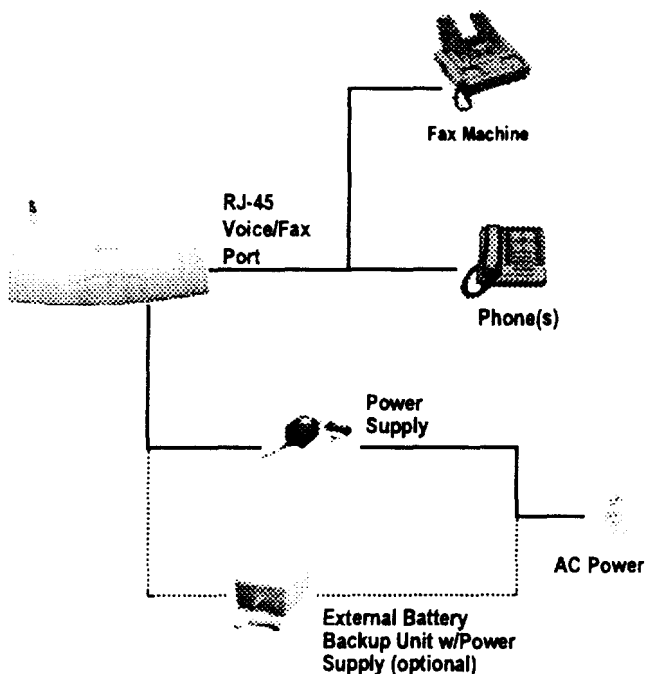
Digital Voice Fax/Data (AMPS)

- TDMA 800 MHz

Features

- Exceptional voice quality with echo cancellation and digital voice/data privacy
- DTMF and pulse-dial capability
- Supports up to five extension phones
- Fallback analog fax and data over analog channels at 9600 baud
- External linear power supply (*included*) and optional battery backup
- Call waiting, call forwarding and caller ID (*all subject to network availability*)
- Built-in signal-strength indication and self-monitoring capabilities for user diagnostics
- Easily programmed using ordinary telephone
- Simple desktop or wall-mount installation

Easy Installation



Specifications

Air Interface Standard

- TDMA IS-136

Transmit Power

- Maximum 600 mW

Frequency Ranges

- Transmit: 824-849 MHz
- Receive: 869-894 MHz

FWT Dimensions and Weight

- Metric (cm) 30 x 14.3 x 4
- U.S. (inches) 12 x 5.6 x 1.5
- 912 g (2 lbs.)

Operating Voltage

- 12 VDC

Environment

- Operating temperature range: -10°C to +50°C
- Storage temperature range: -25°C to +65°C
- Humidity: 5% to 95%

Power Dissipation

- AC power input: 10 W
(*Maximum input power of the terminal at full RF power*)

Intelligent RJ-11 Interface

- Ringer equivalence number (REN) 5.0A
- Dynamic echo cancellation
- POTS Programming

LED Indicators

- Power status
- Cellular status
- FWT status

Enclosure

- ABS plastic cover and plastic base

Connectors

- RJ-45 interface jack for voice (*Accepts RJ-11 phone line connector*)
- TNC antenna connector
- DC power input jack

Antenna

- Stub antenna (*included*)
- Optional higher gain antennas available:
 - 3 dB or 5 dB gain magnetic-mount
 - 9 dB and 12 dB gain yagi

Power Supply (Included)

- 3-wire linear

	110V	220V
• Voltage	90 to 135 Vrms	190 to 300Vrms
• Frequency	57 to 63 Hz	47 to 53 Hz

- Plug options: U.S., U.K., Euro., Australia

Option Accessories

- Battery backup unit/charger (*provides up to 5 hours of talk-time or 18 hours of standby*)
- Lead-acid batteries for battery backup unit (*two 6-volt 4AH lead-acid batteries required*)

ATTACHMENT D

WITNESS: BLUNDELL

EXAM BY MR. AYOTTE

1 record.

2 MR. AYOTTE: Thank you.

3 JAMES BLUNDELL

4 called as a witness on behalf of Applicant, Western Wireless,
5 having been first duly sworn by Chair Wine, testified under
6 oath as follows:

7 DIRECT EXAMINATION

8 BY MR. AYOTTE:

9 Q. Mr. Blundell, would you please state your full
10 name and spell it for the record?

11 A. Yes. My name is James H. Blundell, spelled
12 B-L-U-N-D-E-L-L.

13 Q. And by whom are you employed?

14 A. I'm employed by Western Wireless Corporation.

15 Q. You have before you a copy of the direct testimony
16 of James Blundell as well as the rebuttal testimony of James
17 Blundell. Was that testimony prepared by you or under your
18 supervision, direction and control?

19 A. Yes.

20 Q. Are there any changes or corrections to that
21 testimony?

22 A. No.

23 Q. If I were to ask you the questions which are
24 contained in your direct testimony and your rebuttal
25 testimony today, now that you are under oath, would your

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1 answers be the same?

2 A. Yes, they would.

3 MR. AYOTTE: Mr. Chairman, I would ask that the
4 direct and rebuttal testimony of Mr. Blundell be admitted
5 and spread upon the record.

6 CHAIR WINE: Is there objection to the admission of
7 this testimony? Seeing none, it will be admitted in the
8 record.

9 (THEREUPON, the prefiled testimony of
10 James Blundell was incorporated into the
11 record and attached following the
12 transcript).

13 MR. AYOTTE: The witness is available for
14 cross-examination.

15 CHAIR WINE: Mr. Pfaff.

16 MR. PFAFF: None, Your Honor.

17 CHAIR WINE: Mr. Cantrell.

18 MR. CANTRELL: I have nothing for this witness,
19 Your Honor.

20 CHAIR WINE: Ms. Powers.

21 MS. POWERS: Thank you.

22 CROSS-EXAMINATION

23 BY MS. POWERS:

24 Q. Mr. Blundell, you indicate in your direct
25 testimony that Western Wireless is currently providing

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1 service in eastern Kansas. Is that correct?

2 A. That's correct, yes.

3 Q. Okay. And is it likely that Western will continue
4 to provide service only in that area or do you know of any
5 possibility that Western will expand its service coverage in
6 Kansas?

7 A. I don't know of any plans today to acquire licenses
8 or any other assets in Western Kansas.

9 Q. Okay. And am I correct that Western Wireless
10 provides services primarily in rural areas?

11 A. That's correct.

12 Q. Now, in this proceeding, with the exception of the
13 service area question for Sprint, am I correct that Western
14 Wireless is not asking for a change in service area
15 definition?

16 A. Could you clarify change in service area
17 definition?

18 Q. Okay. Let me rephrase the question. Western
19 Wireless is requesting that the Commission open a proceeding
20 to look at changing the service area definitions for Sprint.
21 Is that correct?

22 A. Yes, a disaggregation proceeding.

23 Q. Okay. And for the other rural companies, is
24 Western Wireless seeking desegregation of their service
25 territories?

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1 A. No, I don't believe so.

2 Q. Am I correct that Western Wireless' network is in
3 place at this time?

4 A. Yes, that's correct. The cellular network that
5 Western Wireless operates is in place today.

6 Q. Okay. You are providing wireless service over that
7 network now?

8 A. That's correct.

9 Q. And that is the same network over which you will
10 provide the universal service offering?

11 A. Yes, definitely.

12 Q. Okay. You indicate in your direct testimony that
13 if there is problem with signal coverage, you would pursue
14 over avenues to maximize signal coverage. Is that right?

15 A. In the universal service offering?

16 Q. Yes.

17 A. Yes.

18 Q. Now, would you do that prior to beginning the
19 universal service offering to make sure that it was
20 sufficient?

21 A. We would take whatever steps are necessary. In the
22 case of individual customers or sets of customers where
23 signal coverage happens to be an issue for that customer or
24 set of customers, we will take additional engineering steps
25 to ensure that that customer has the service they need.

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1 Q. Okay. And what kind of time frame is associated
2 with that? If you discover that there is a problem, how long
3 does it take to fix it basically?

4 A. Well, again, there is a series of steps that we
5 could take. Western could -- if service at a particular
6 household isn't sufficient, we could install a high gain
7 antenna on the premises that day. Another step might be
8 installing in the nearby area a portable cell tower. That
9 could probably be accomplished within a week. We could
10 certainly take steps at the adjacent cell site to turn up
11 power, add channels if capacity is an issue. Those are steps
12 that could probably be taken in a number of days. We don't
13 -- given the way that Western Wireless has applied for this
14 designation, we don't anticipate any need for any of those
15 steps. We have included them in the testimony because in the
16 rare occurrence that it is necessary, we will ensure that
17 customers in the designated service areas have the service
18 they need and have asked for.

19 Q. And am I correct that the service that you plan on
20 offering as universal service is not one that you are
21 currently marketing in Kansas?

22 A. That's correct.

23 Q. You have addressed that service a little bit, I
24 think, at page 11 of your direct testimony and more
25 specifically at page 16 of your rebuttal. Let's talk about

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1 that service a little bit. I believe that you state in your
2 direct testimony -- oh, your rebuttal testimony, sorry, that,
3 specifically at pages six and seven, you would plan on making
4 available universal service offering that includes unlimited
5 local usage. Is that correct?

6 A. That's correct.

7 Q. Okay. And the rate would be 14.99 per month?

8 A. Yes, I believe that the testimony is that we
9 haven't made the determination, the precise determination in
10 the Kansas rural areas that are in question what our pricing
11 will be. We expect that it will be 14.99 for unlimited local
12 calling in an expanded local calling area. It's consistent
13 with the method -- it's consistent with the pricing we have
14 used in the other locations that we have launched this
15 precise service.

16 Q. And when you are talking about an expanded local
17 calling area, I think, did you indicate that that would be
18 within the county of the customer's location?

19 A. Not necessarily.

20 Q. Have you made any specific determination regarding
21 what constitutes an expanded local calling area?

22 A. It depends on a number of factors, the most
23 important being that it be larger than the incumbent local
24 calling area and in most cases, substantially larger. So
25 that's one factor. Another would be communities of interest.

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1 We seek to include in a local calling area all of the
2 communities that our customers in that particular market tend
3 to come in contact with by telephone and to include those
4 communities. So while we haven't given that -- we haven't
5 been designated in any of the rural telco areas in Kansas, we
6 haven't made those determinations of local calling area. I
7 can give you an indication of what they will look like
8 generally.

9 Q. Okay. And is that what you just did or do you have
10 anything to add to that?

11 A. Excuse me. That's what I just did. It's a process
12 of analysis in each case in each community, each market. It
13 depends on the circumstances in that market. And once we are
14 designated, we will immediately begin the process of making
15 that analysis and determining the calling areas.

16 Q. And do you make that analysis by contacting people
17 in the local community to determine community of interest or
18 is that sort of a long distance, seat of the pants
19 determination?

20 A. It's definitely not seat of the pants. We start,
21 as I said, with the assumption that the calling area is going
22 to be much larger than the local incumbent's calling area.
23 So starting with that assumption, then we look to the
24 communities in that area, look at local calling patterns and
25 get input from our sales staff that's here in Kansas as to

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1 what kinds of patterns people use and then begin to draw
2 those lines.

3 Q. Okay.

4 A. So it is a fairly -- it's certainly not scientific,
5 but it is a fairly methodical analysis.

6 Q. And the 14.99 price that Western Wireless is
7 considering, is it contingent on being declared an ETC and
8 receiving universal service funding where it is available?

9 A. Yes.

10 Q. Okay. Now, in addition to that price, there is
11 some other charges, right? First, I assume that there is a
12 connection charge for the customer to pay?

13 A. As I -- as the testimony states, we haven't made
14 the determination yet, but in the markets where we have
15 launched to date, typical activation charges and installation
16 fees include a \$15 -- a \$15 activation fee and a \$30
17 installation fee.

18 Q. And the customer would also, I assume, in addition
19 to the 14.99 need to pay for the Western Wireless assessment
20 for the federal and state universal service fund. Is that
21 right?

22 A. That's correct, as well as any other taxes that the
23 customers are liable for.

24 Q. Okay. Now, wire line customers also have to pay
25 the end user common line charge. Do wireless customers need?

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1 to pay that charge?

2 A. I don't know.

3 Q. Okay. That's a federal charge. You are not aware
4 of whether --

5 A. I don't believe that CMRS carriers, that our
6 customers pay that charge, but I don't know for sure.

7 Q. Okay. That would be my belief too. Now, with
8 respect to long distance calling, will the Western Wireless
9 universal service customers have a choice of long distance
10 carriers or is it a package deal?

11 A. Customers in the universal service offering will
12 pay for long distance at the rate of 10 cents per minute for
13 calls in the 50 states. They can certainly use dial-around
14 services and access another long distance carrier. And then
15 we have some international rates as well.

16 Q. Now, would you agree with me that -- you are
17 aware -- start over on that one. You are aware, are you not,
18 that the Kansas universal service, that the Kansas definition
19 of basic universal service includes equal access?

20 A. I'm aware that it did at one point. This
21 Commission has essentially determined for purposes of CMRS
22 carriers that it doesn't apply, that equal access doesn't
23 apply. We are not required to offer equal access.

24 Q. Okay. And is that based on federal law that the
25 Commission has made that determination?